

1. A communication apparatus selectively connectable to a central communication apparatus, comprising:

    a transmitter that transmits a CLR signal to the central communication apparatus, said CLR signal including a capabilities list of the communication apparatus, said CLR signal further including information that requests that the central communication apparatus transmit a capabilities list of the central communication apparatus to the communication apparatus; and

    said transmitter transmitting an ACK signal and a MS signal, that designate a particular communication mode, to the central communication apparatus when a CL signal that includes the capabilities list of the central communication apparatus is received by the communication apparatus from the central communication apparatus, wherein said MS signal includes an identification field and a standard information field, data in said identification field and data in said standard information field being hierarchically stored.

2. The communication apparatus of claim 1, wherein said transmitter transmits a NACK signal to the central communication apparatus when the central communication apparatus indicates that said MS signal transmitted by said communication apparatus requests an inappropriate communication mode.

3. The communication apparatus of claim 2, wherein the communication apparatus

returns to an initial transaction state after transmitting said NACK signal.

4. The communication apparatus of claim 1, wherein said MS signal comprises a plurality of octets, a last bit in each octet being defined as a delimiting bit within each octet of an information block.

5. The communication apparatus of claim 1, wherein said identification field in said MS signal includes a country code.

6. The communication apparatus of claim 1, wherein said identification field in said MS signal includes revision information.

7. The communication apparatus of claim 1, wherein said standard information field includes a parameter identifying at least one of an ITU G.992.1 Recommendation and an ITU G.992.2 Recommendation.

8. A method for performing a data communication between a central communication apparatus and a remote communication apparatus, comprising:

transmitting a CLR signal, including a capabilities list of the remote communication apparatus, from the remote communication apparatus to the central communication

apparatus, the CRL signal further including information requesting that the central communication apparatus transmit a capabilities list of the central communication apparatus to the remote communication apparatus; and

transmitting an ACK signal and a MS signal to the central communication apparatus, that designates a particular communication mode, when a CL signal that includes the capabilities list of the central communication apparatus, transmitted by the central communication apparatus, is received by the remote communication apparatus, wherein the MS signal includes an identification field and a standard information field, data in the identification field and data in the standard information field being hierarchically stored.

9. The method of claim 8, wherein the remote communication apparatus transmits a NACK signal to the central communication apparatus instead of the ACK signal when the central communication apparatus indicates that the MS signal transmitted by the remote communication apparatus designates an inappropriate communication mode.

10. The method of claim 9, wherein the remote communication apparatus returns to an initial transaction state after transmitting the NACK signal.

11. The method of claim 8, wherein the MS signal includes a plurality of octets, a last bit in each octet being defined as a delimiting bit within each octet of an information block.

12. The method of claim 8, wherein the identification field in the MS signal includes a country code.

13. The method of claim 8, wherein the identification field in the MS signal includes revision information.

14. The method of claim 8, wherein the standard information field includes a parameter identifying at least one of an ITU G.992.1 Recommendation and an ITU G.992.2 Recommendation.

15. A communication apparatus selectively connectable to a central communication apparatus, comprising:

a transmitter that transmits a first predetermined signal to the central communication apparatus, said first predetermined signal including a capabilities list of the communication apparatus, said first predetermined signal further including information that requests that the central communication apparatus transmit a capabilities list of the central communication apparatus to the communication apparatus; and

said transmitter transmitting a second predetermined signal and a third predetermined signal, that designate a particular communication mode, to the central communication apparatus when a certain signal that includes the capabilities list of the central

communication apparatus is received by the communication apparatus from the central communication apparatus, wherein said third predetermined signal includes an identification field and a standard information field, data in said identification field and data in said standard information field being hierarchically stored.

16. The communication apparatus of claim 15, wherein said transmitter transmits a fourth predetermined signal to the central communication apparatus when the central communication apparatus indicates that said third predetermined signal transmitted by said communication apparatus requests an inappropriate communication mode.

17. The communication apparatus of claim 16, wherein the communication apparatus returns to an initial transaction state after transmitting said fourth predetermined signal.

18. The communication apparatus of claim 15, wherein said third predetermined signal comprises a plurality of octets, a last bit in each octet being defined as a delimiting bit within each octet of an information block.

19. The communication apparatus of claim 15, wherein said identification field in said third predetermined signal includes a country code.

20. The communication apparatus of claim 15, wherein said identification field in said third predetermined signal includes revision information.

21. The communication apparatus of claim 15, wherein said standard information field includes a parameter identifying at least one of an ITU G.992.1 Recommendation and an ITU G.992.2 Recommendation.

22. The communication apparatus of claim 15, wherein said first predetermined signal comprises a CLR signal.

23. The communication apparatus of claim 15, wherein said second predetermined signal comprises an ACK signal.

24. The communication apparatus of claim 15, wherein said third predetermined signal comprises a MS signal.

25. The communication apparatus of claim 15, wherein said certain signal comprises a CL signal.

26. The communication apparatus of claim 16, wherein said fourth predetermined signal comprises a NACK signal.